

ABSTRACT

In producing a multilayer-coated powder by coating the surface of a base powder of a metal, metal oxide, etc. with two or more layers of a metal oxide or the like, the films of a metal oxide or the like are formed through decomposition, etc. from a metal salt as an inexpensive material. This is attained by making the powder particles not to be attacked by acids, etc. when the metal salt decomposition or the like, which yields an acid, etc., is conducted. The multilayer-coated powder is characterized in that the multilayered film comprises at least one layer consisting of a metal hydroxide or metal oxide film formed by the hydrolysis of a metal alkoxide and, as a layer disposed on the outer side of that layer, a coating film consisting of a metal hydroxide or metal oxide film formed by a reaction, e.g., neutralization or pyrolysis, of a metal salt. Upon heating, the metal hydroxide or metal oxide film formed by the hydrolysis of a metal alkoxide becomes a dense metal oxide film.